SHARP SERVICE MANUAL

CODE : 00ZCE571BSM—E

2MB RAM BOARD

MODEL CE-571B

FOR PC-5700 SERIES

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PARTS LIST

This document has been published to be used for after sales service only.
The contents are subject to change without notice.

SHARP CORPORATION

1. OVER VIEW

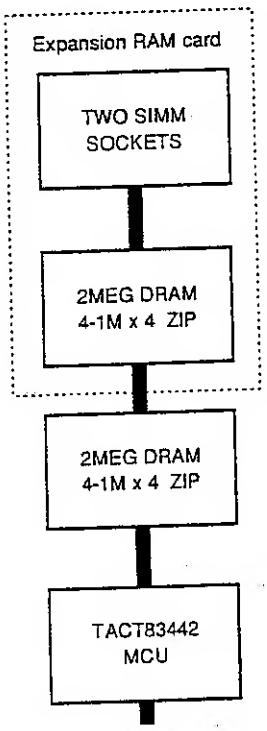
The CE-571B is a RAM card option of the PC-5700 SERIES to expand its main RAM capacity (2MB).

On the CE-571B are mounted four chips of 1M Bit × 4 DRAM and 2 RAM SOCKETS.
CE-571B is expand max. 4MB (USED BY 1MB RAM MODULE) or 10MB (USED BY 4MB RAM MODULE).

1MB RAM module TOSHIBA THM81000AS-80

4MB RAM module TOSHIBA THM84000S-80

The RAM card option can be connected with the main RAM via the 60-pin connector (P11). The RAM card is controlled by the TACT83442 (MCU) outputs MA0～10, $\overline{CAS2}$～$\overline{CAS7}$, $\overline{RAS1}$～$\overline{RAS3}$, and data bus.



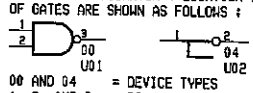
2. CIRCUIT DIAGRAM

NOTES : UNLESS OTHERWISE SPECIFIED :

1. ALL IC DEVICE TYPES ARE PREFIXED WITH SN74.
2. THE FOLLOWING PREFIX'S ARE ALWAY'S USED:
   T IS EQUAL TO "LS"
   AT IS EQUAL TO "ALS"
3. THE FOLLOWING PREFIX'S ARE USED ONLY WHEN INSUFFICIENT CHARACTERS ARE AVAILABLE:
   A IS EQUAL TO "ACT"
   B IS EQUAL TO "BCT"
   V IS EQUAL TO "AS"
   W IS EQUAL TO "AT" OR "ALS"
4. IC PACKAGE TYPE IS INDICATED BY THE FOLLOWING SUFFIX'S ;

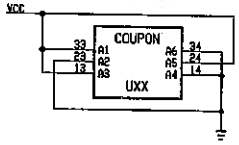
DUAL-IN-LINE, PLASTIC = "N" OR BLANK	
DUAL-IN-LINE, PLASTIC (WIDE)	= NW
DUAL-IN-LINE, CERAMIC	= J
DUAL-IN-LINE, CERAMIC (WIDE)	= JD
CHIP CARRIER, PLASTIC	= F
CHIP CARRIER IN A S.M. SCKT	= FF
CHIP CARRIER IN A PGA SCKT	= FX
CHIP CARRIER, CERAMIC (RECT)	= FE
CHIP CARRIER,CERAMIC(SQUARE)	= FH
FLAT PACKAGE, CERAMIC	= U
FLAT PACKAGE, CERAMIC (WIDE)	= W
GRID ARRAY,PLASTIC	= X
GRID ARRAY,PLASTIC(LIF SCKT)	= XL
GRID ARRAY,PLASTIC(ZIF SCKT)	= XZ
GRID ARRAY,CERAMIC	= Y
GRID ARRAY,CERAMIC(LIF SCKT)	= YL
GRID ARRAY,CERAMIC(ZIF SCKT)	= YZ
SINGLE-IN-LINE	= E,L,M,G
"SOIC", PLASTIC	= D
"SOIC", PLASTIC (WIDE)	= DW
"SOJ", PLASTIC, J LEADS	= R

5. VCC IS APPLIED TO PIN 8 OF ALL 8-PIN IC's, PIN 14 OF ALL 14-PIN IC's, PIN 16 OF ALL 16-PIN IC's, PIN 20 OF ALL 20-PIN IC's, ETC.
6. GROUND IS APPLIED TO PIN 4 OF ALL 8-PIN IC's, PIN 7 OF ALL 14-PIN IC's, PIN 8 OF ALL 16-PIN IC's, PIN 10 OF ALL 20-PIN IC's, ETC.
7. DEVICE TYPE, PIN NUMBERS, AND REFERENCE DESIGNATOR (LOCATION) OF GATES ARE SHOWN AS FOLLOWS ;



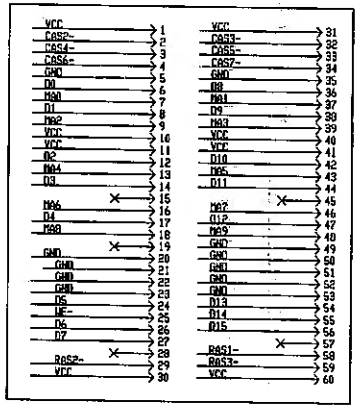
00 AND 04 = DEVICE TYPES
1, 2, AND 3 = PIN NUMBERS
U01 AND U02 = REF. DESIGNATOR (LOCATION)

8. RESISTANCE VALUES ARE IN OHMS.
9. RESISTORS ARE 1/8 WATT, 5% .
10. CAPACITANCE VALUES ARE IN MICROFARADS.
11. CAPACITORS ARE 50V,5% .
12. THIS COUPON WILL BE USED ON ALL COMMERCIAL MULTILAYER BOARDS.



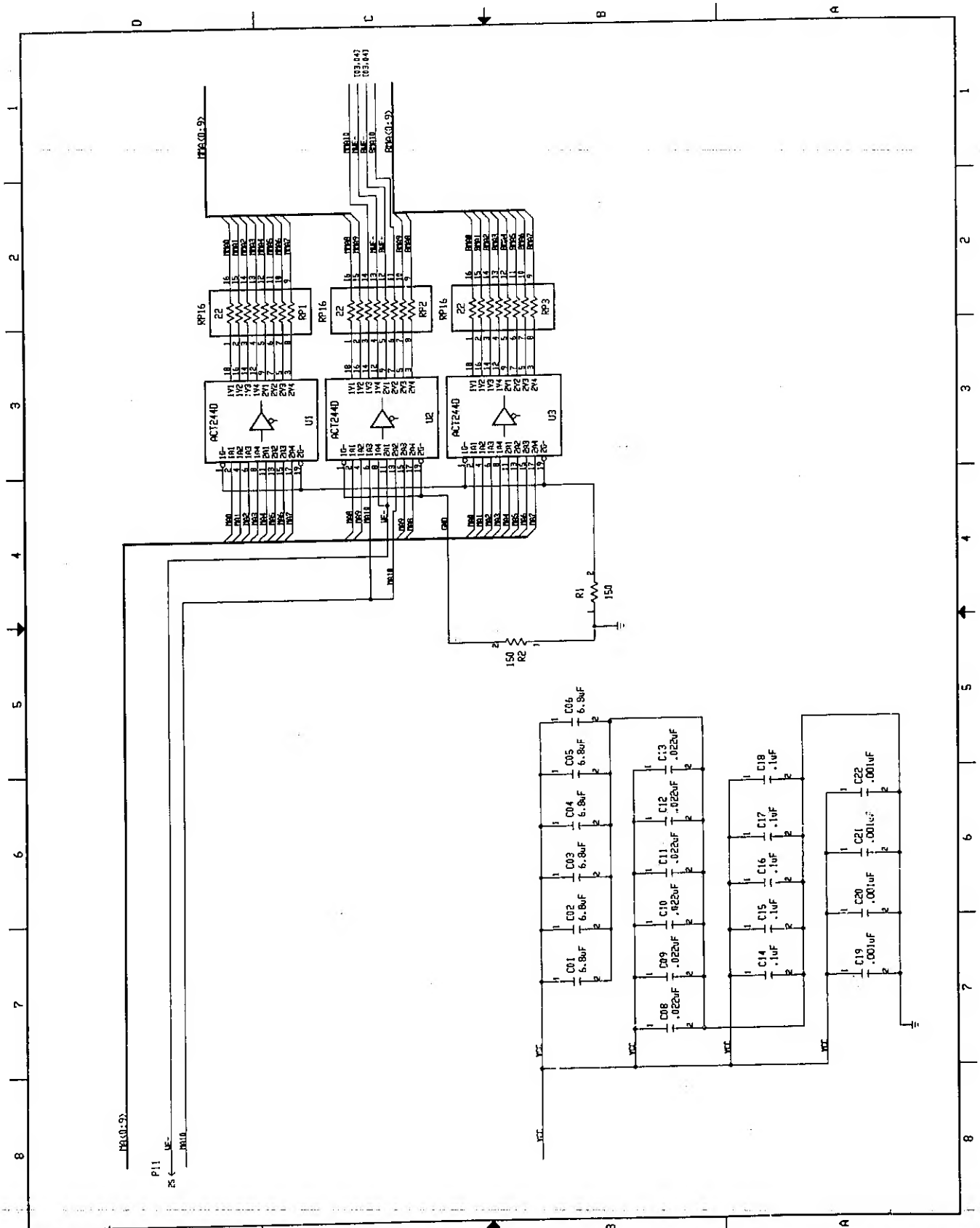
FORMAL RELEASE

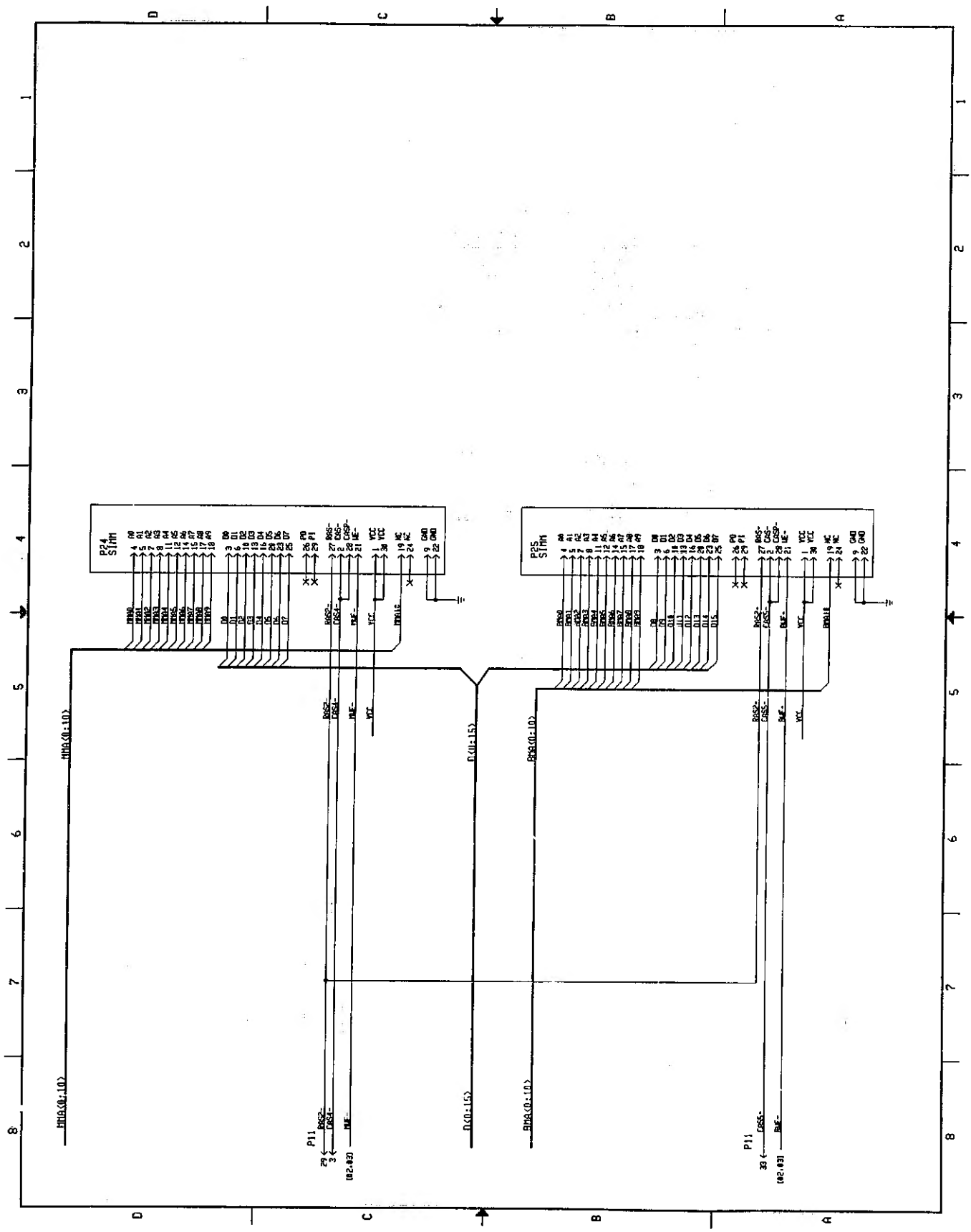
P11 EX-RAM

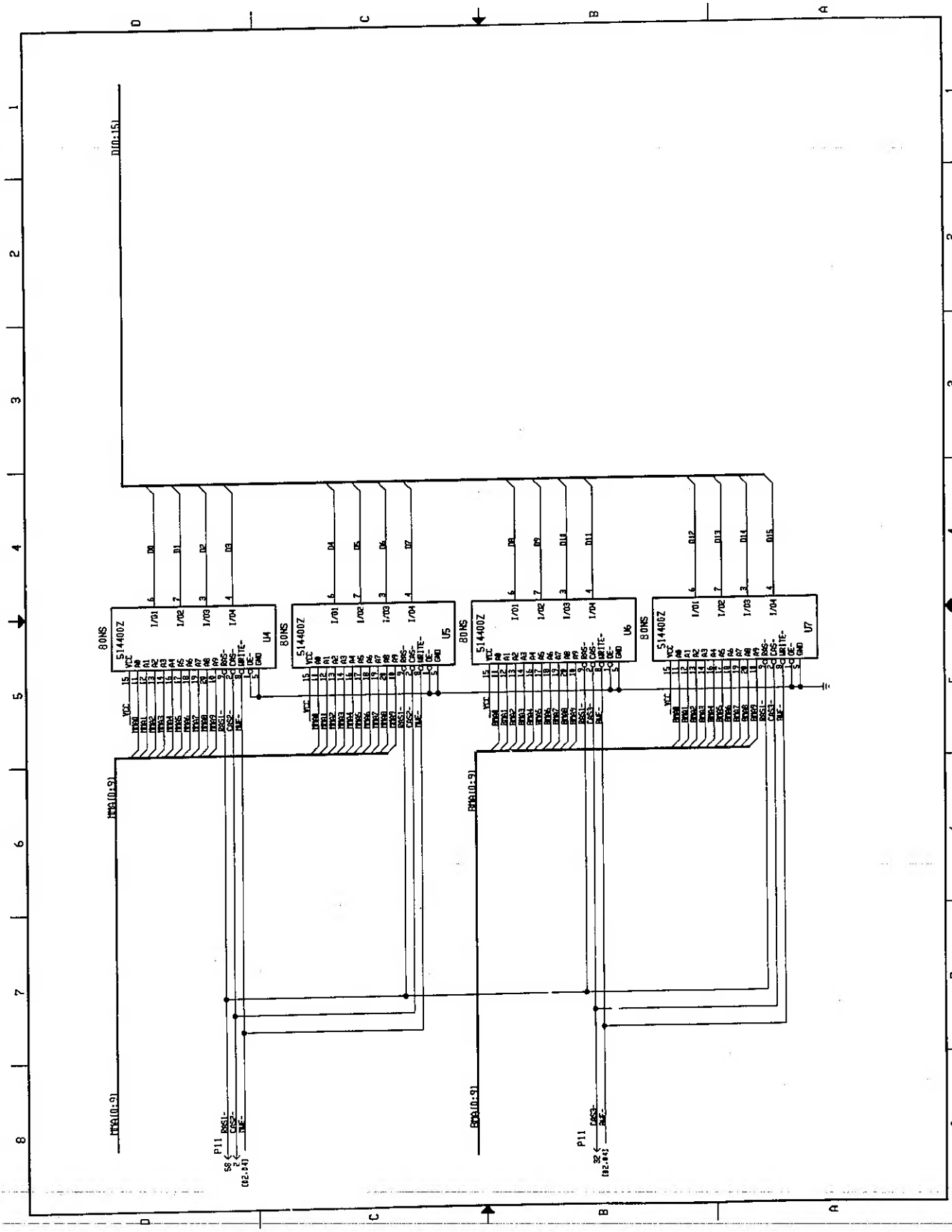


COMPUTER GENERATED DRAWING

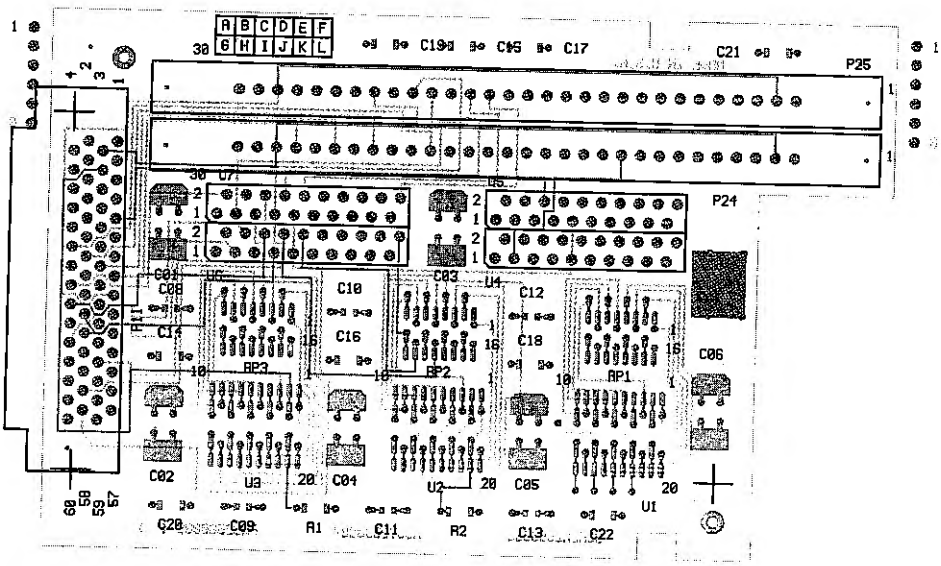
DO NOT REVISE MANUALLY


ACT2440
U1
U2
U3
RP16
22
RP1
RP2
RP3
R1
150
R2
150
C01 6.8uF
C02 6.8uF
C03 6.8uF
C04 6.8uF
C05 6.8uF
C06 6.8uF
C08 .022uF
C09 .022uF
C10 .022uF
C11 .022uF
C12 .022uF
C13 .022uF
C14 .1uF
C15 .1uF
C16 .1uF
C17 .1uF
C18 .1uF
C19 .001uF
C20 .001uF
C21 .001uF
C22 .001uF
VCC
GND
OE-
P11


P24
SIMM
P25
SIMM
MA(0:10)
D(0:15)
BA(0:10)
P11
(82,83)


D
C
B
A
1
2
3
4
5
6
7
8
DIN(15)
D0
D1
D2
D3
D4
D5
D6
D7
D8
D9
D10
D11
D12
D13
D14
D15
U4
U5
U6
U7
80NS
514400Z
VCC
GND
RAS-
CAS-
WRITE-
OE-
MA(0:9)
MB(0:9)
P11
RAS1-
CAS2-
CAS3-
WE-
58
32
(02:04)

3. P.W.B. LAYOUT



PARTS LIST

CE-571B

NO	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION	
1	OII2221301007	A H	N	C	Capacitor (6.8μF ±20%)	[C1~C6]
2	VCKYTQ1HB223M	A A	N	C	Capacitor (50wv 22000pF)	[C8~C13]
3	VCKYTQ1EF104Z	A A		C	Capacitor (25wv 0.1μF)	[C14~C18]
4	VCKYTQ1HB102K	A A		C	Capacitor(50wv 1000pF)	[C19~C22]
5	VRS-TP2BD151J	A A		C	Resistor (1/8w 150Ω ±5%)	[R1, R2]
6	OII2248301042	A N		C	Resistor (22Ω 2%)	[RP1~RP3]
7	OII2548291002	A R		B	IC (ACT244)	[U1~U3]
8	QCNCM5079SC6J	A P		C	Connector (60pin)	[P1]
9	VHI514400Z//8	B E		B	IC (51440Z)	[U4~U7]
10	QSOCZ2025HCZZ	A R		C	IC soket (30pin)	[P24, P25]

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